

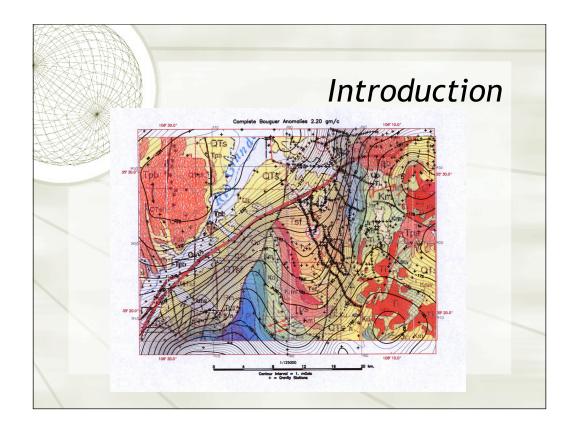
Ryan Dearth University of Colorado SAGE 2008





# Outline

- →Introduction
- **+** Equipment
- ◆Corrections and Featured anomalies
- → Data and Models
- +Conclusions

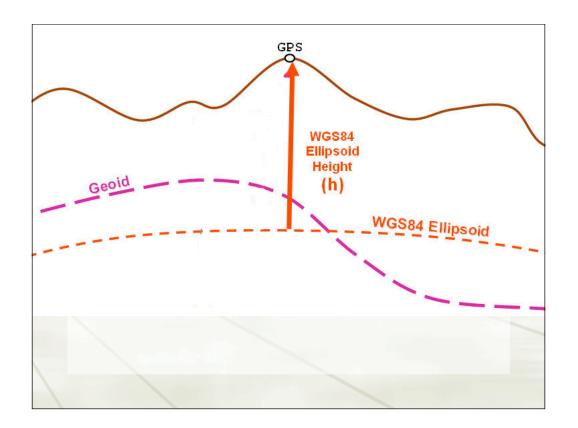




## **Gravitational Corrections**

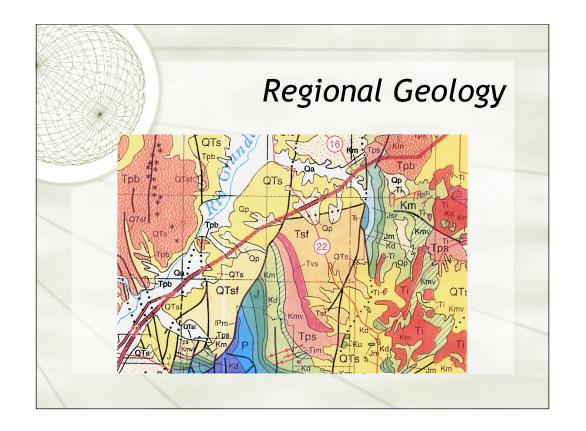
- \*Tidal and Drift
- **+** Latitude Correction
- → Free Air Correction
- → Bouguer Anomaly
- → Terrain Correction
- ◆Next Step: Shawn Fixing Problems

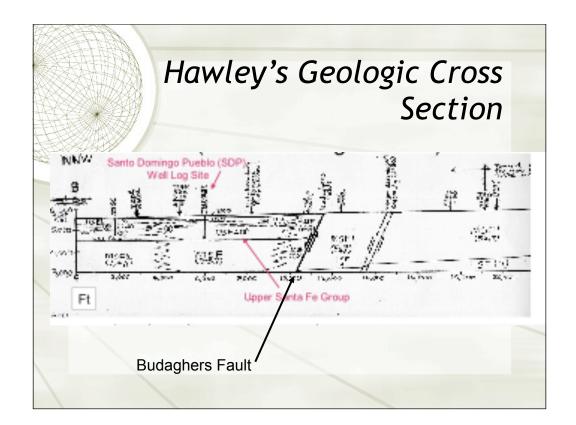


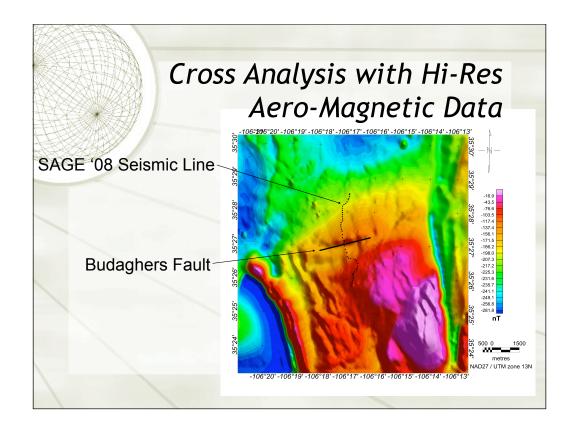


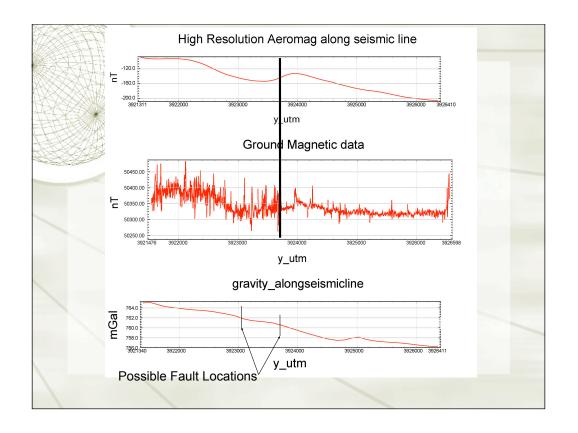
# The Most Important Feature

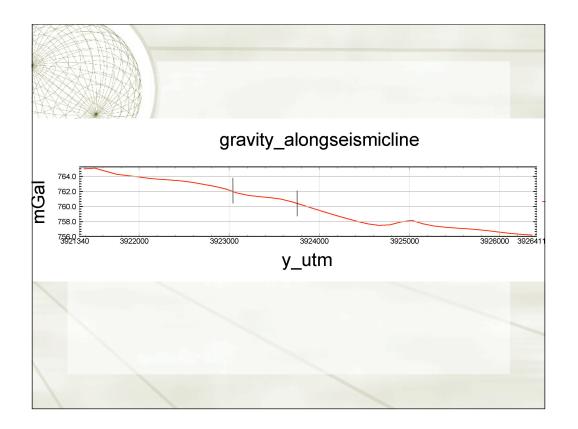
- →Lateral Density Contrast
  - →Ideal for vertical offset faults
  - ◆Determining basement depths

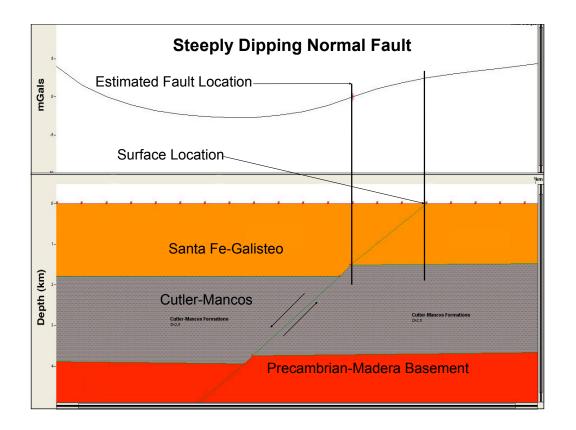


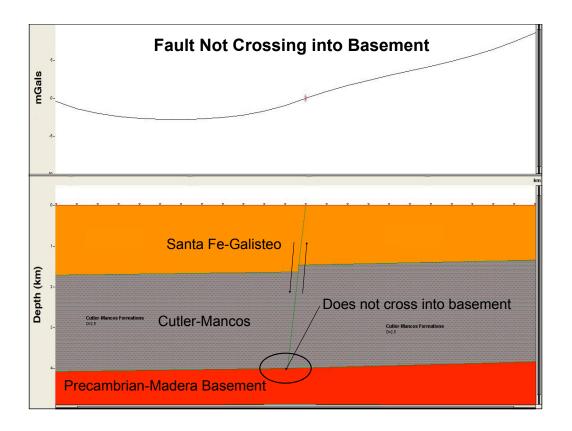






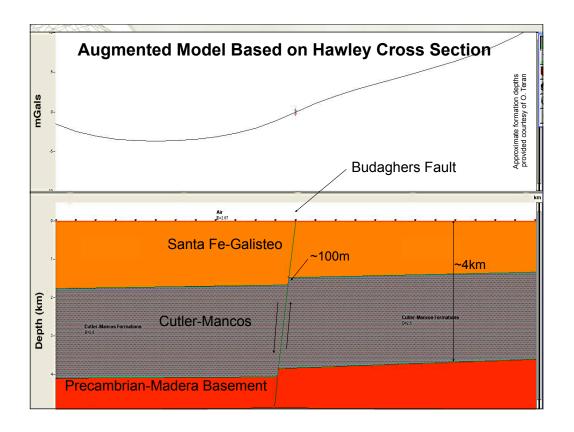






## **Conclusions**

- → The fault is not easily map without better resolution
- + Gravity is non-unique!
- + External parameters are necessary
- → Quality position values are necessary
- → The more constraints available the better



# Acknowledgements

- + George, Scott, and of course Shawn
- Darcy, for answering all of my questions and keeping me from losing my head
- → Team 3 You're the best around!
- → All the other SAGE Faculty and Students